EverFocus®

Full HD CCTV Total Solutions

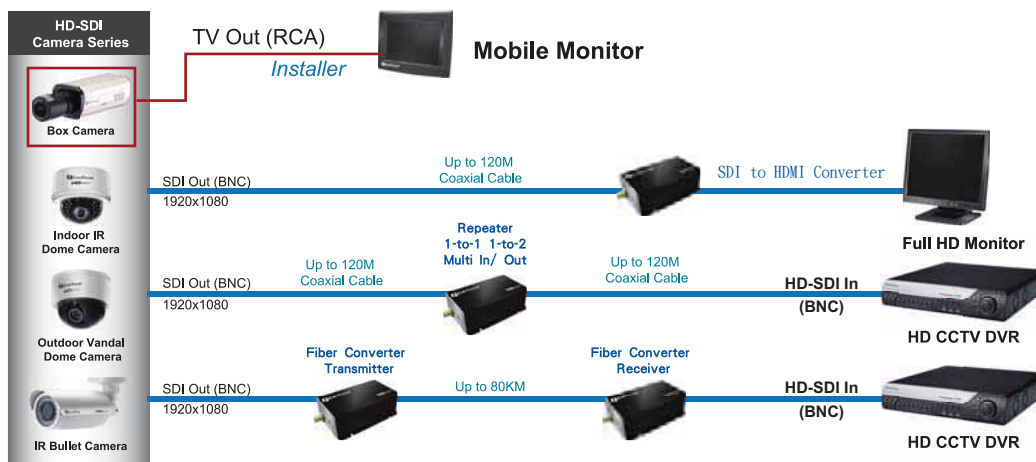## Cutting-Edge HD-SDI Surveillance System

Full HD

The Industry's First **HDTV** *Quality*

Megapixel Video OVER COAX

HDcctv✓ from EverFocus

▼ **EPHD08**
8CH (HD-SDI+H.264)
Full HD CCTV DVR

▲ **EQH5200**
2 Megapixel Full
HD CCTV Camera

HD-SDI System Configuration

HD-SDI Camera Series

Box Camera
Indoor IR Dome Camera
Outdoor Vandal Dome Camera
IR Bullet Camera

TV Out (RCA)
Installer
Mobile Monitor

SDI Out (BNC)
1920x1080
Up to 120M Coaxial Cable
SDI to HDMI Converter
Full HD Monitor

SDI Out (BNC)
1920x1080
Up to 120M Coaxial Cable
Repeater 1-to-1 1-to-2 Multi In/ Out
Up to 120M Coaxial Cable
HD-SDI In (BNC)
HD CCTV DVR

SDI Out (BNC)
1920x1080
Fiber Converter Transmitter
Up to 80KM
Fiber Converter Receiver
HD-SDI In (BNC)
HD CCTV DVR

HD CCTV *Cutting-edge HD-SDI Surveillance System*

True Plug-and-play
Real-time High Definition Resolution Recording over COAX

Deliver and record High Definition image quality using traditional coaxial cable*!

Wire new HDCCTV megapixel systems with familiar and easy to install coax and BNC connectors, or reuse the existing coax infrastructure to efficiently upgrade analog systems to megapixel digital performance without the need to design and deploy an IP network. Each home run coaxial cable provides a full bandwidth dedicated communication path for the HD-SDI/HDCCTV standards compliant signal; no congestion, latency or distortion. Make the transition from SD/D1 to Full HD as easy as attaching new EverFocus HDCCTV cameras to the existing coax and power, and upgrading the DVR to the Paragon HD DVR. Don't have to worry about switches, routers and IP addresses anymore. The Paragon HD DVR and HDCCTV cameras provide more than 6 times higher resolution than traditional SD DVRs to record and playback HD image quality at 240/200fps that were carried over COAX.

*Up to 500 feet, longer distances with EverFocus extenders

▶ Advantages

Pentaplex Operation plus Dual Streaming

For optimized system performance, HD CCTV DVR can simultaneously record HD resolution at 30/25fps. It also automatically employs dual streaming for remote multiplex display, reducing the image size in the DVR to efficiently deliver 30/25fps on all cameras. For example, if recording/playing at HD/D1 resolution, dual streaming at CIF resolution allows remote viewing of full motion on all cameras while conserving bandwidth. Thus it can achieve HD real time recording and playback locally, and still deliver smooth remote motion reproduction during network playback in low bandwidth environments.

Convenient Monitoring With Web-viewer

HD CCTV DVR has a built-in web server that enables users to monitor live and playback DVR images without special software, through a web browser from any supported PC.

Web-viewer

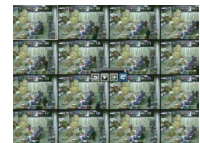### Video Streaming to Mobile Devices

HD CCTV DVR supports real-time streaming for MAC Safari, FireFox and Opera on PCs, plus mobile monitoring, allowing you the capability to check your home or business on-the-go directly from a variety of web capable mobile devices – FREE! No additional servers or purchased programs required. EverFocus also offers a FREE MobileFocus app for iPhone & Android™.

Powerful Search with Smart Function

User can search video by date, time and event or filter by type of recording quickly and efficiently. A Smart Search function enables you to set specific region of interest (ROI) in the field of view and search monitors within the ROI by any camera at any date back relevant video for efficient review of significant activities, and Snapshot Search extracts images at a defined interval to quickly locate events.
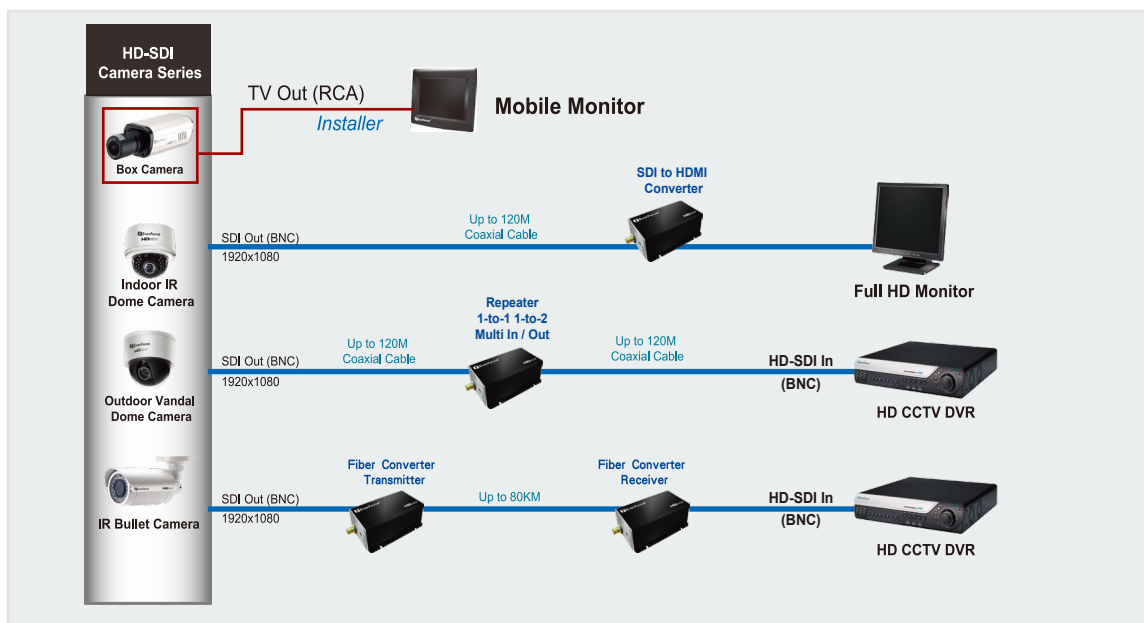

Smart Search

Snapshot Search

HDMI and VGA Multiplex Monitor Outputs

Full HD 1920 x 1080 provides superior picture performance on a massive scale, with two entire megapixels of resolution allocated to monitor display. HDMI and VGA digital outputs render stunning images from any resolution, and enhance motion reproduction to deliver smoother and crisper looking video.

▶ HD-SDI System Configuration

Paragon HD DVR

8 Channels H.264, HD-SDI, Full HD DVR, Real-Time Recording & Playback, Megapixel Video Over Coax

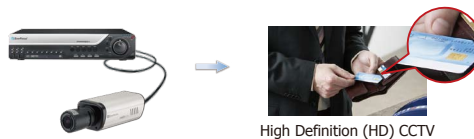| HD-SDI Input	HDMI	H.264 compression	1080p Full HD	HD Real-Time	FREE DDNS	Dual Stream	Audio I/O	GUI Graphic User Interface	Real-Tim	USB Mouse	USB Drive	DVD+RW	PDA/ Smart Phone	Smart Search

▶ Features

- 1080p or 720p HD CCTV camera support for superlative image clarity
- HD real-time recording and playback rate for all cameras (at 720p)
- HDMI 1080p and VGA multiplex view main monitor outputs
- Simultaneous high resolution recording (1080p/720p) with reduced bandwidth remote view streaming
- Mobile Viewing from PDA or SmartPhone
- Pentaplex operation (simultaneous live, recording, playback, archiving and remote viewing)
- Free EverFocus DDNS service
- User friendly GUI
- Support 4 fixed internal HDD and eSATA external HDD

- Multiple control inputs: mouse / front panel / IR remote controller / EKB500 keyboard
- Express setup, Express archive, Express playback, Express search, Smart Search, Snapshot search
- Gigabit Ethernet interface for remote network viewing and configuration
- On-screen PTZ control via mouse or front panel
- Per channel audio recording capabilities
- Built-in DVD burner
- 3 USB 2.0 ports for video archive and mouse usage
- Multi–language support
- 19" rack mountable (rack ears included)

▶ Advantages

Real-time High Definition Resolution Recording over COAX

Deliver and record High Definition image quality using traditional coaxial cable! Retain plug-and-play ease of installation: select leading edge EverFocus HD CCTV cameras that use the advanced HD-SDI transfer format to send full HD, megapixel resolution digital video over the same coax that once carried only standard definition video. The Paragon HD DVR makes a tremendous leap forward in image quality by providing more than 6 times higher resolution than SD DVRs to record and playback HD image quality at 240/200fps that were carried over COAX. The Paragon HD DVR also provides HD quality still image recording in response to event notifications.

High Definition (HD) CCTV

▶ Specifications

Model	Paragon HD DVR
HD-SDI Camera Video Inputs	8 BNC connectors
Recording Rate/Resolution	120/100 FPS @1080p; 15/12,5 FPS per channel 240/200 FPS @720p; 30/25 FPS per channel
Playback Rate/Resolution	15/12.5 FPS @ 1080p; 120/100FPS @ 480x256 30/25 FPS @720p; 240/200 FPS @ 320x176
Compression Format	H.264
Dual Streaming	Yes
Mobile Viewing on PDA/Smartphone	Yes; various platforms and browsers supported
Pentaplex Operation	Simultaneous Live, Recording, Playback, Archive and RemoteViewing
Video Output	Main Monitor 1080p HDMI+VGA
Audio Input/Output (RCA)	8 Inputs / 1 Output
Recording Mode	Manual, Schedule and Event
Playback Search	Date/Time Search, Event Search, Smart Search
Alarm In	8 Alarm Inputs
Alarm Out	2 Alarm Outputs – Form "C" rated at 30VDC, 1A
Video Pause	Yes
Video Loss Detection	Yes
Motion Detection	Yes
Event Log	Yes
Watch Dog Timer	Yes
Internal HDD	4 Internal HDD
External HDD	1 eSATA
Built-in DVD Burner	Slim Type DVD Burner
User Interface	GUI (Graphical User Interface – easy mouse or front panelnavigation)
OS	Embedded Linux
Network/Protocol	Gigabit Ethernet; TCP-IP / DHCP/ PPPoE / DDNS / UDP / SMTP / SSL / RTP / RTSP / NTP
USB	3 USB 2.0 port (2 on Front Panel, 1 on Back Panel)
Schedule Setting	Supports Express and Advanced Schedule Setting
User Access	3 Levels of User Access Support
RS-232	9-pin D-Sub socket (male)
RS-485	1 RS485 (3 Terminal connector)
Power Source	100VAC~240VAC
Power Consumptio	180W
Dimensions (L x W x H)	410 x 430 x 88 mm / 16.2" x 16.9" x 3.5"
Temperature	0°C~40°C / 32°F~104°F (20~80% humidity)
Certificates	CE, FCC, UL
Supported PTZ Protocols	EverFocus, Pelco D, Pelco P, Samsung, Transparent

ENDEAVOR HD+SD DVR

HD+SD CCTV Hybrid Real-time Megapixel and Standard Video over Coax

Badges: HDMI | H.264 compression | HD-CCTV SMPTE292m | 1080p Full HD | HD Real-Time | FREE DDNS | Dual Stream | Audio I/O | GUI Graphic User Interface | (Motion) | USB Mouse | USB Drive | DVD+RW | PDA/Smart Phone | HYBRID HD+SD | Smart Search

▶ Features

- Both HD CCTV megapixel video inputs and analog video inputs
- 720p or 1080p HD resolution recording for HD CCTV video inputs up to 30fps/camera
- Dual streaming to optimize remote viewing bandwidth utilization
- Real-time recording rate and playback rate – up to 30fps@D1 on analog and 30fps@HD on HD CCTV
- Recording resolution and rate can be set independently for each camera, and changed via user defined schedule
- Multiple main monitors : HDMI 1080p / VGA (1920 x 1080) output
- Pentaplex operation (simultaneous live, recording, playback, archiving and remote viewing)
- User friendly GUI
- Free EverFocus DDNS Service and EverFocus Central Management Software
- Supports eSATA external HDD array (EDA450)

- Supports remote/mobile monitoring via PC browsers, SmartPhones and iPhone/Android apps
- Multiple control inputs: mouse / front panel / IR remote control / EKB500 keyboard
- Express setup, Express playback, Express archive, Express search, Smart search, Snapshot search
- Gigabit Ethernet interface for remote network viewing and configuration
- Audio recording capabilities
- Up to 4 internal HDDs
- Built-in DVD burner
- 2 USB 2.0 ports for video archive and mouse usage
- Multi-language support
- Watermark capabilities
- USB Mouse and IR remote control included
- 19" Rack mountable (rack ears included)

▶ Advantages

Hybrid Real-time High & Standard Definition Resolution Recording over COAX

Deliver and record both High & Standard Definition image quality using traditional coaxial cable*! Retain plug-and-play ease of installation: select leading edge EverFocus HD CCTV cameras that use the advanced HD CCTV transfer format to send full HD, megapixel resolution digital video over the same coax* that once carried only standard definition video. The ENDEAVOR HD+SD DVR delivers "hybrid" recording that allows SMPTE 292 meters complaint HD CCTV cameras and conventional analog cameras to be recorded on the same DVR. This unique platform provides a gradual migration path to High Definition video recording while still supporting the use of existing analog equipment.
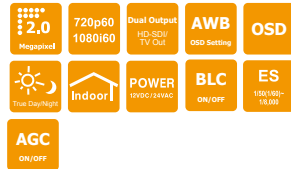
*Up to 500 feet, longer distances with extenders

High Definition (HD) CCTV

▶ Specifications

ENDEAVOR HD+SD DVR			
Model Name		EDR HD - 2H14	EDR HD - 4H4
HD-CCTV Camera Inputs		2 BNC SMPTE292m compliant	4 BNC SMPTE292m compliant
Analog Camera Inputs		14 BNC	4 BNC
Looping Analog Camera Outputs		14 BNC	4 BNC
Compression Format		H.264	
Dual Streaming		Yes (Configurable)	
HD Recording Rate/Resolution	1080p	30fps NTSC / 25fps PAL	60fps NTSC / 50fps PAL
Choose one resolution for both channels	720p	60fps NTSC / 50fps PAL	120fps NTSC / 100fps PAL
Analog Recording Rate/Resolution Resolution and rate can be set independently per camera up to the total D1 recording capacity	D1	420fps NTSC / 350fps PAL	120fps NTSC / 100fps PAL
HD Playback Rate/Resolution	1080p 720p	Up to 30fps NTSC / 25fps PAL Up to 60fps NTSC / 50fps PAL	Up to 45fps NTSC / 37.5fps PAL Up to 90fps NTSC / 75fps PAL
Analog Playback Rate/Resolution	D1	Up to 420fps NTSC / 350fps PAL	Up to 120fps NTSC / 100fps PAL
Mobile View		Live view on PDA or Smart Phones (MobleFocus FREE app for iPhone® and Android™) plus various web browsers	
Pentaplex Operation		Simultaneous Live, Recording, Playback, Archive and Remote Viewing	
Main Monitor Outputs (simultaneous display)		1080p HDMI (socket Type A 19 pin female) and VGA 1920 x 1080 @ 60 Hz (D-Sub socket 15 pin female)	
Audio Inputs		16 Inputs (RCA, line level)	8 Inputs (RCA, line level)
Audio Outputs		2 Outputs (RCA, line level)	
Recording Modes		Manual, Schedule and Event	
Playback Search		Date/Time, Event, Tex, Smart, Snapshot	
Alarm Inputs		16	8
Alarm Outputs		4 Alarm Outputs – Form "C" rated at 30VDC, 1A	
Video Pause		Yes	
Video Loss Detection		Yes	
Motion Detection		Yes	
Event Log		Yes	
Watch Dog Timer		Yes	
Internal HDD Support		4 Internal HDD (up to 8Tb max at time of printing)	
External HDD Support		1 eSATA	
DVD Drive		DVD RW Built In	
User Interface		Color GUI (Graphical User Interface)	
OS		Embedded Linux	
Network/Protocol		Gigabit Ethernet; TCP-IP / DHCP/ PPPoE / DDNS / UDP / SMTP / SSL / HTTP / NTP/ ICMP / ARP	
Control PTZ via OSD		Local and via web interface	
USB		2 Front Panel USB 2.0 port	
Schedule Setting		Support Express and Advanced Schedule Setting	
User Access		3 Levels of User Access Support	
RS-232		9-pin D-Sub socket (male)	
RS-485		1 RS485 (2 RJ45 connector)	
Power Source		100VAC~240VAC	
Power Consumption		110W max. with 4 x HDD	
Dimensions (L x W x H)		395 x 430 x 79.5 mm / 15.6" x 16.9" x 3.2"	
Temperature		0°C~40°C / 32°F~104°F (20~80% humidity)	
Certificates		CE, FCC, UL	
Supported PTZ Protocols		EverFocus, Pelco D, Pelco P, Samsung, Transparent	

EQH5200

**2 Megapixel, HD-SDI,
Full HD CCTV Box Camera**

- HD CCTV 2 Megapixel real-time 1080i HD video over COAX
- 2 megapixel progressive scan CMOS sensor
- Supports video outputs of 720p and 1080i
- Lens Types: supports DC and manual Iris lenses, CS mount (C mount adapter ring included)
- True Day/Night mode selectable with automatic ICR module
- Easy to use OSD setup menu
- Dual Video Output: Megapixel HD-SDI (BNC) plus SD TV Out (RCA) for installation
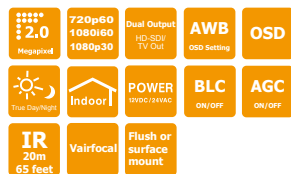- Dual Power Source 12VDC/24VAC dual voltage

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EHH5200

**2 Megapixel 1080/720 HD-CCTV
Outdoor IP66 Vandal Dome Camera**

- HD CCTV 2 Megapixel real-time 1920x1080 (or 1280x720) HD video over COAX
- 2 megapixel progressive scan CMOS sensor
- Supports video outputs of 1080i, 1080p and 720p (field select)
- True Day/Night operation with automatic ICR module
- 3.3~12mm AI VF megapixel lens captures the desired field of view
- Field select choice of wall or ceiling mounting
- Easy to use OSD setup menu
- SD TV Out (BNC) for aim and focus using a standard hand held test monitor
- Dual Power Source 12VDC/24VAC dual voltage auto polarity detect
- IP66 and vandal resistant

EDH5240

**2 Megapixel 1080/720 HD-CCTV
3-Axis Indoor IR Color Dome Camera
with Surface or Flush Mount Capability**

- HD CCTV 2 Megapixel real-time 1920x1080 (or 1280x720) HD video over COAX
- 2 megapixel progressive scan CMOS sensor
- Supports video outputs of 1080i, 1080p and 720p (field select)
- True Day/Night operation with automatic ICR module
- 3-Axis positioning for flexible mounting and aiming
- 3.3~10mm AI VF megapixel lens captures the desired field of view
- Field select choice of wall or ceiling, surface or flush mounting
- Easy to use OSD setup menu
- Dual Video Outputs: Megapixel HD-SDI (BNC)
- SD TV Out (BNC) for aim and focus using a standard hand held test monitor
- Dual Power Source 12VDC/24VAC dual voltage auto polarity detect
- IR distance up to 65ft./20m or more; High output IR LEDs, lifespan of 20,000 hours

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EZH5240

**2 Megapixel, HD-SDI, Outdoor
Full HD CCTV IR Bullet Camera**

- HD CCTV 2 Megapixel real-time 1080p/1080i/720p HD video over COAX
- 2 Megapixel progressive scan CMOS sensor
- True Day/Night mode selectable with automatic ICR module
- Easy to use OSD setup menu
- Dual Video Output : Megapixel HD-SDI (BNC) plus SD TV Out (RCA) for installation
- Dual Power Source 12VDC/24VAC dual voltage
- Extended IR range of up to 40m with 36 LEDs and variable output IR control to manage illumination and conserve energy
- Split glad to prevent internal IR reflections
- Flexible mounting and positioning – speed – mount ring fits 4" round electrical box; or remove base to mate with 1" conduit
- E-Z lock ring at the base is designed with easy to grip tabs for firmly clamp the camera in place, plus a set screw for added security
- Easy bottom access to video test point and lens control inside weatherproof cover plus Remote Zoom & Focus adjustment by web browser
- IP66 and vandal resistant

EHA-SRX
HD-SDI to HDMI Converter

EHA-RPT
HD-SDI Repeater

EHA-FTX/FRX
HD-SDI to Fiber Converter

- Accepts HD CCTV High-Definition HD-SDI digital video at 720p/60, 1080i/60 and 1080p/30 formats / frame rates
- Processes HD-SDI standard at 1.485Gb/s data rate
- Integrated cable equalizer for long distance video transmission without loss of quality
- High quality digital video and audio transmission with near zero latency
- Provides standard HDMI output for HD TV monitor display (EHA-SRX)
- Capable of receiving HD CCTV digital video over 75Ω coaxial cable at distances up to 400ft. / 120m (EHA-SRX)
- Capable of receiving HD CCTV digital video over 75Ω coaxial cable at distances over 100m (depending on cable type) (EHA-RPT)
- Capable of transmitting and receiving HD CCTV digital video over fiber optics (EHA-FTX/FRT)